

## Special Purpose Plug-In Modules

- 76-01A** 25MHz Single Channel — 5mV/cm sensitivity, 14.5ns risetime
- 76-05** 100MHz Plug-in — 5-7.5V/cm sensitivity, 3.5ns risetime
- 76-06** 20MHz Four Trace Plug-in — 20mV/cm sensitivity, 17.5ns risetime, 9 modes of operation

## Specifications

| Features            | 76-01A                                | 76-05                                     | 76-06                                  |
|---------------------|---------------------------------------|-------------------------------------------|----------------------------------------|
| Passband            | 25MHz                                 | 100MHz                                    | 20MHz                                  |
| Risetime            | 14.5ns                                | 3.5ns                                     | 17.5ns                                 |
| Sensitivity         | 5mV/div to 10V/div                    | 5V/div to 7.5V/div                        | 20mV/div to 10V/div                    |
| Attenuator          | 1, 2, 5, 10 sequence with 11 steps    | None                                      | 1, 2, 5, 10 sequence with 9 steps      |
| Input Impedance     | 1 meg shunted with 40pf               | 50 ohms                                   | 1 meg shunted with 35pf                |
| Input Selector      | A or B input with AC & DC             | One input General Radio 874               | AC or DC with an OFF position          |
| Internal Calibrator | Cal Position on att. switch           | Connects through front panel binding post | Cal Position on each att. switch       |
| Variable Gain       | Adjustable between 5mV/div to 25V/div | None                                      | Adjustable between 20mV/div to 25V/div |
| Modes of Operation  | One mode                              | One mode                                  | Nine modes                             |
| Attenuator Accuracy | Within 3%                             | None                                      | Within 3%                              |
| Delay Line          | Optional (7001) 230ns                 | 150ns                                     | Optional (7002) 230ns                  |
| Price               | \$385.00                              | \$225.00                                  | \$695.00                               |

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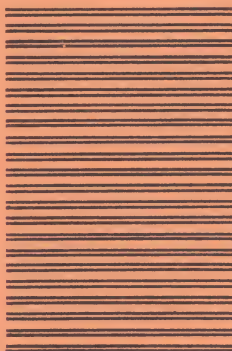
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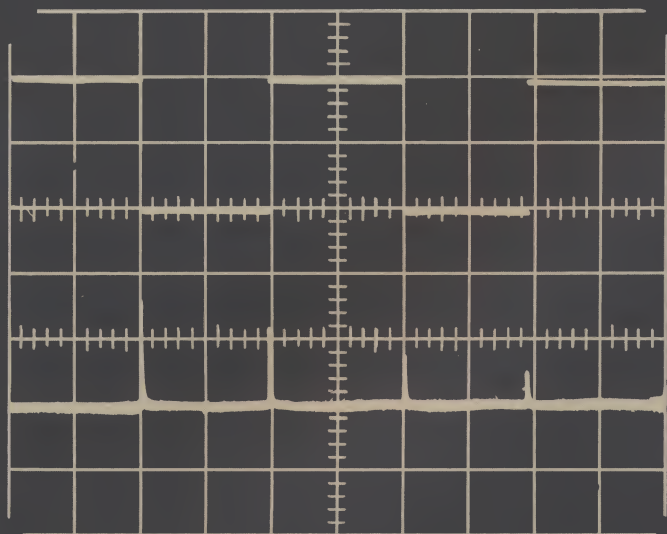


## Accessories

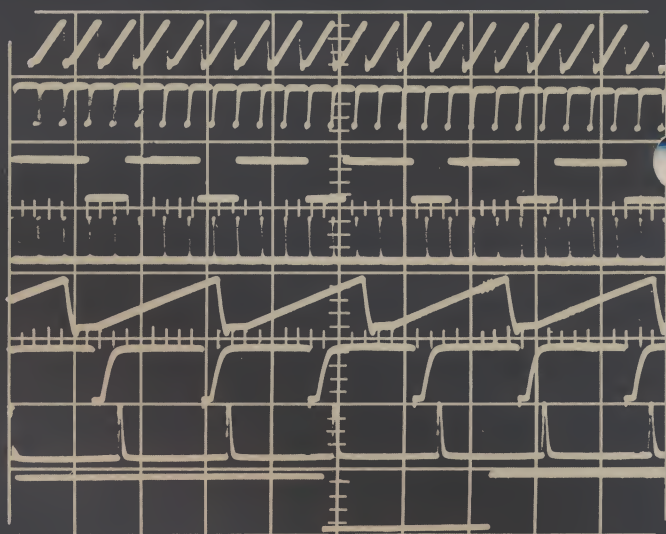
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- 7020** Scope Traveler
1. Aluminum Construction
  2. 35° of Continuous Tilt for Tray
  3. Non-marking Swivel Casters (4)
  4. Provided with U. L. approved A. C. outlets (Optional with 7022, 7031)
  5. Tray size 10¾" x 22½" @ a height of 26½"
  6. Drawers and plug-in cavities optional
  7. Frame — Extruded and welded anodized aluminum  
Trays — Anodized aluminum covered with epoxy paint
- 7030** Scope Traveler (As above except #5)
5. Tray size 17¾" x 22½" @ a height of 32½"
- 7022** Drawer and Plug-In Cavity (For 7020 & 7030 Travelers)
- Drawer —*
1. Positive Stop
  2. Felt Lined
  3. Divided Compartment
  4. Magnetic Catches
  5. Nylon Rollers
  6. All Aluminum
- Plug-In Cavity —*
1. Accepts all Fairchild Vertical Amplifiers and Time Bases
  2. U. L. Approved A. C. Outlets (4)
  3. All Aluminum
  4. Two Cavities
  5. Cord Storage on Rear
- Finish —*  
Anodized Aluminum and Epoxy Paint
- 7031** Accessory Drawer (For 7030 Traveler)
1. Positive Stop
  2. Magnetic Catches
  3. Nylon Rollers
  4. Felt Lined
  5. Divided Compartment
  6. All Aluminum
  7. U. L. Approved A. C. Outlets (4)
  8. Cord Storage on Rear
- 450-A** Oscilloscope Camera
1. Fits all Circular 5⅝" Bezels
  2. Rubber-hooded, Binocular Viewing Port
  3. Ratchet-type Clamping Ring
  4. Swing-away and Lift-off Housing
  5. Interchangeable Lenses
  6. Electrical Solenoid Accessories
  7. Wide-range of Film Sizes
  8. Variable Image Reduction
  9. Data Recording Facility
  10. Sliding Back with 9 Detent Positions for Multiple Exposures on One Frame
  11. Light Weight, All Metal, Die-cast Construction
  12. Single Sweep Capability and Remote Control
  13. Adjustable Focus
  14. Jam-proof Shutters

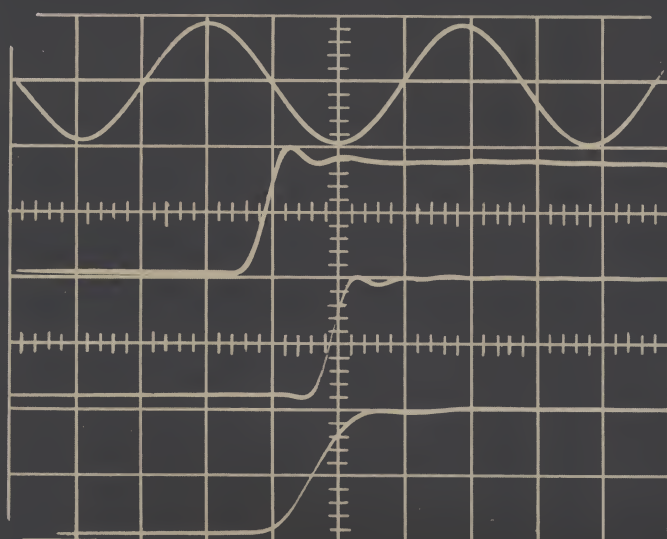




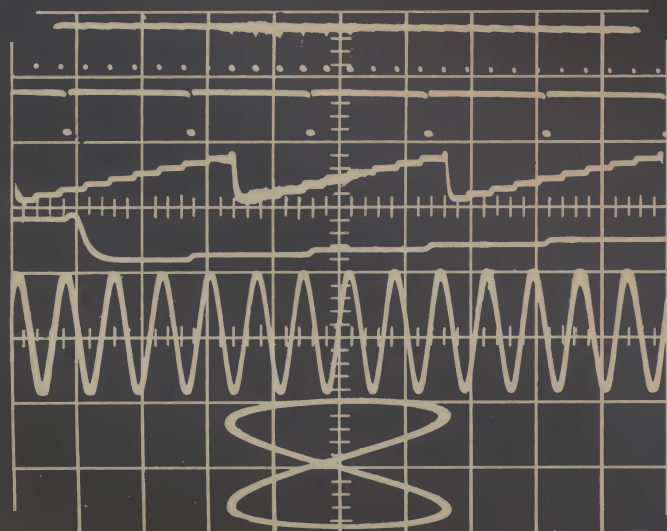
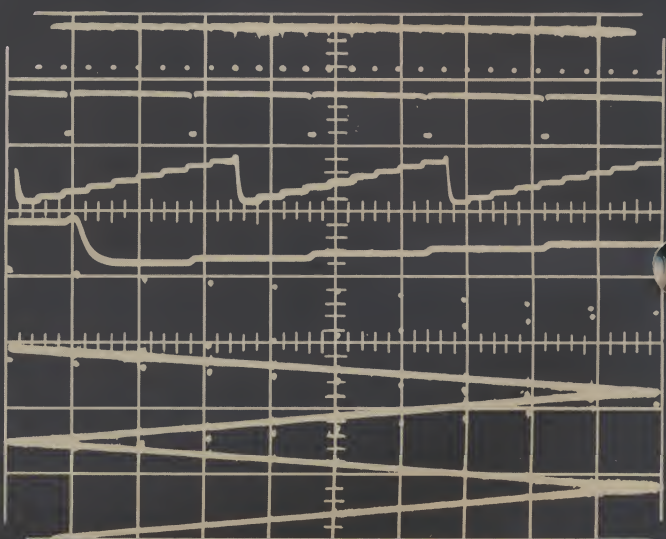
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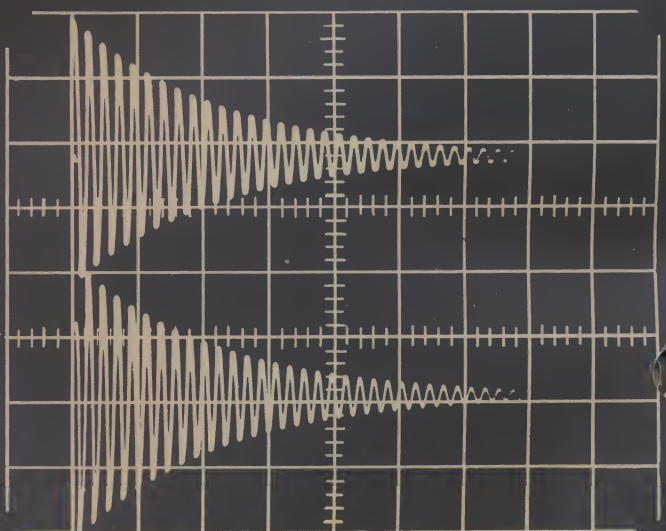
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## Display Capabilities

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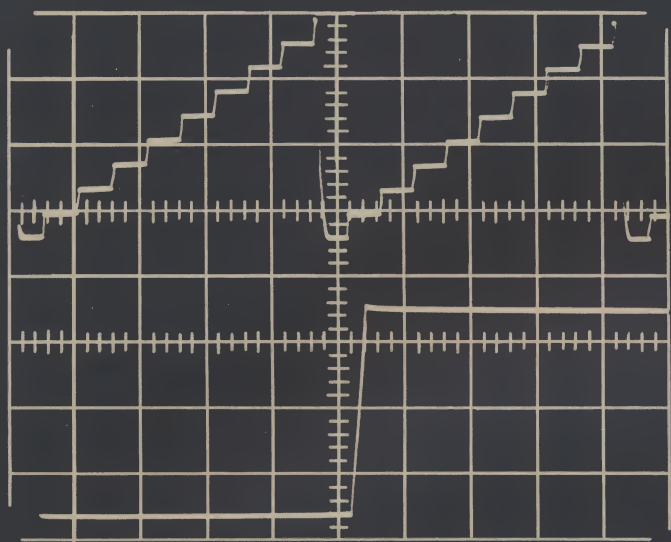
The Type 777 is a dual beam high frequency plug-in oscilloscope. The 777 frame will accept any of the 74-00 and 76-00 series plug-ins as well as the 79-02A. Two complete independent horizontal deflection systems and two complete independent vertical deflection systems make this a true dual beam scope.

With 13KV accelerating and with a Faraday shield, this unit provides high light output and with a 6CM by 10CM scan for each two beams.

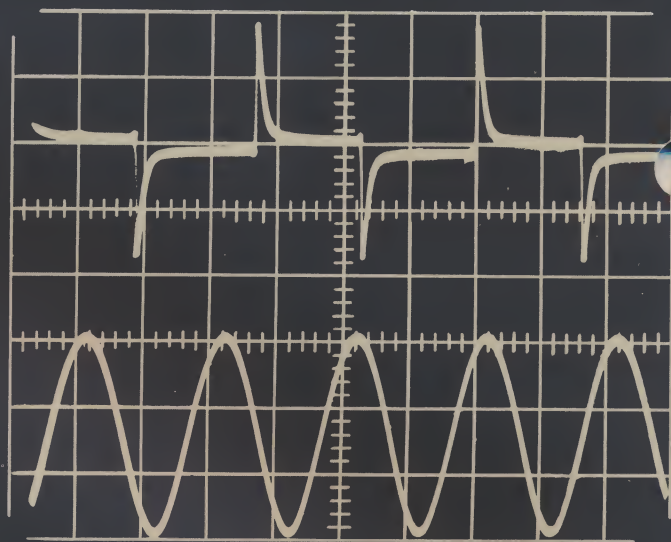
With the horizontal and vertical cavities and a wide selection of plug-ins, this unit meets many requirements and provides versatility not found elsewhere.

1. With two 74-03A in the horizontal and a 76-08 in one vertical and a 74-94A in the other cavity. We can view a square wave on the 76-08 with the upper beam and with the 74-94A lower beam, we can view a spectrum analysis of the square wave at the same time.
2. With two 76-06 in the vertical and one 74-03A and one 74-13A in the horizontal, we can view a combination of traces. We can view four traces on the upper beam with the 74-03A and four traces with the 74-13A delaying sweep. In the trigger strobe position, we can view any part of the sweep and expand it further by going to the delayed mode.
3. With two 79-02A's vertical amplifiers and two 74-03A in the horizontal, we can view any frequency up to 100MHz @ 200mV/div with a risetime of 3.5ns and with the amplifier used in the X10 mode 3.9ns risetime with 20mV/div sens.
4. With two vertical dual channel plug-ins and a 74-13A and a 74-20A in the horizontal with a normal display shown on the upper beam, we can also show a raster display at the same time. This enables the resolution to be increased up to 5000 times the normal sweep.
5. With two 74-17A in the horizontal and two dual channel plug-ins on the vertical, we can view four independent sweeps. With beam switching, we can view A sweep alternating with B sweep or we can view sine wave (Y) plotted against time and Y plotted against X.
6. With two 74-03A in the horizontal and two 76-08 vertical plug-ins, we can change the 777 into a high writing rate scope with the flip of a switch in each lower cavity. Shown is a single shot 50MHz ringing on each beam.

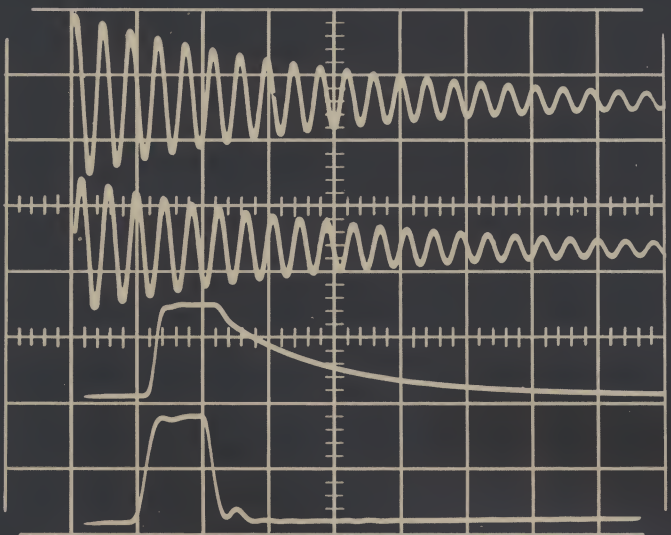




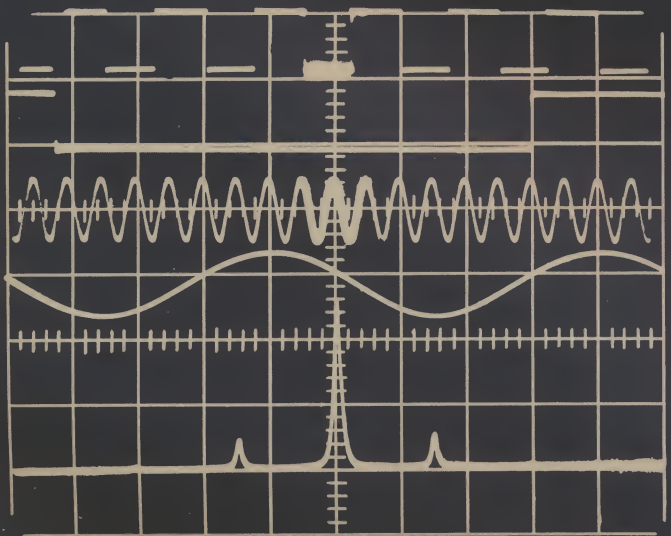
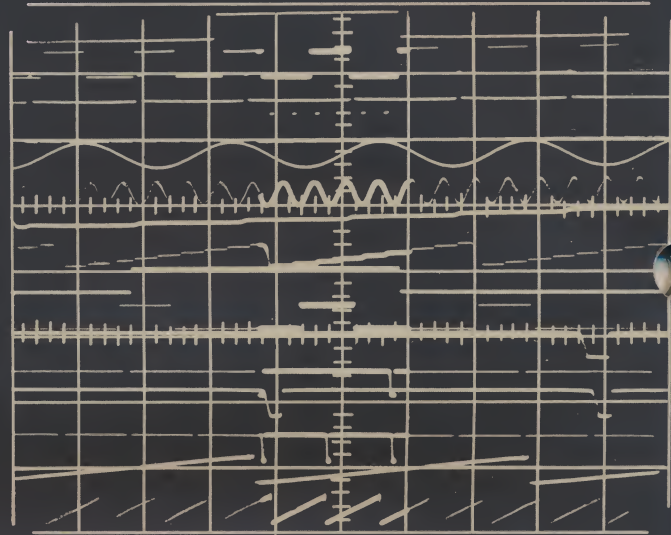
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## Display Capabilities

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7. With two 74-03A in the horizontal and a 76-07 and another vertical amplifier in the system, we can look at a normal signal with low sensitivity on one channel, while at the same time, using the 76-07 with the slide back voltage, we can expand this signal to about 2000cm and examine some segment at a higher sensitivity.
8. With a 74-12 differential amplifier in one vertical cavity and a 74-15 single trace plug-in the vertical cavity with a 74-14 general purpose time base in one horizontal cavity and a 74-03A in the other cavity, gives us a low frequency, low cost dual beam scope.
9. With two 76-08's in the vertical cavity and with a 74-03A in one horizontal cavity and a 74-13A in the other horizontal cavity. With the 74-03A in single sweep mode, external trigger and the mode switch in the delayed armed sweep mode with external trigger, we can now look at single transients on the 74-13A delayed sweep. Then some time later, using the delayed gate output to trigger the 74-03A, we view a transient on the 74-03A.
10. With two 76-06's in the vertical cavity and two 74-17A plug-ins on the horizontal cavity, we can now view sixteen traces at one time.
11. With a 76-08 in the upper vertical cavity with a 74-17A plug-in for the time base in the lower vertical cavity, we have a 74-91A spectrum analyzer with a 74-14 time base plug-in. With the 777 set up, we can view a sine wave with the 74-17A in the trigger strobe delayed with the B sweep intensified by A sweep and at the same time, we can make a spectral analysis of the sine wave.



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